



```

CCCCCCCC  SSSSSSSS  PPPPPPPP  CCCCCCCC  JJ  FFFFFFFFFF  RRRRRRRR  EEEEEEEEEE  SSSSSSSS
CCCCCCCC  SSSSSSSS  PPPPPPPP  CCCCCCCC  JJ  FFFFFFFFFF  RRRRRRRR  EEEEEEEEEE  SSSSSSSS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CC         SS        PP        PP        CC         JJ  FF          RR        RR  FF          SS
CCCCCCCC  SSSSSSSS  PPPPPPPP  CCCCCCCC  JJ  FFFFFFFFFF  RRRRRRRR  EEEEEEEEEE  SSSSSSSS
CCCCCCCC  SSSSSSSS  PPPPPPPP  CCCCCCCC  JJ  FFFFFFFFFF  RRRRRRRR  EEEEEEEEEE  SSSSSSSS

```

```

LL         IIIIII  SSSSSSSS
LL         IIIIII  SSSSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SS
LL         II      SSSSSS
LL         II      SSSSSS
LL         II      SS
LL         II      SS
LL         II      SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

CSPC  
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1637  
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162  
11  
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MACF

```
0000 1 .TITLE CSPCJFRES
0000 2 .IDENT 'V04-000'
0000 3
0000 4 :*****
0000 5 :*
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0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :++
0000 28 :
0000 29 : FACILITY: Common Journaling Facility, Cluster Server Process
0000 30 :
0000 31 : ABSTRACT: Routine running in the CSP acting on behalf of CJF to
0000 32 : resume the cluster failover sequence following the remastering
0000 33 : of Recovery Unit Journals.
0000 34 :
0000 35 : AUTHOR: Paul R. Beck
0000 36 :
0000 37 : DATE: 9-SEP-1983 17:00 Last Edit: 9-SEP-1983 20:15:46
0000 38 :
0000 39 : MODIFIED BY:
0000 40 :
0000 41 : V03-001 ADE0001 Alan D. Eldridge 6-Feb-1984
0000 42 : Minor cleanup.
0000 43 :
0000 44 :
0000 45 :--
```

```

0000 47 :
0000 48 : Symbol Definitions
0000 49 :
0000 50 :
0000 51 : $CLUBDEF
0000 52 : $IPLDEF
0000 53 :
0000 54 :
0000 55 : This code must run at elevated IPL, so it gets locked down.
0000 56 :
00000000 57 .PSECT CJF$CSP_CODE EXE,WRT
0000 58 :
0000 59 :
0000 60 :
0000 61 : The following two locations are filled in from CSP$CJFREMASTER by the
0000 62 : MOST RECENT CALL to that routine.
0000 63 :
0000 64 LOCK: ; lock page from here to SYNCH
00000000 0000 65 FAILOVER_ID:: .LONG 0 ; most recent failover ID
00000000 0004 66 RESUME_ADDRESS:: .LONG 0 ; address to call to resume
0008 67 ; failover sequence
0008 68 :
0000 0008 69 .ENTRY CJF$RESUME_FAILOVER,^M<>
000A 70 :
000A 71 :
000A 72 : Get the address of the cluster failover control block
000A 73 :
000A 74 :
50 00000000'GF D0 000A 75 MOVL G^CLUSGL CLUB,RO ; First, get the cluster block
50 0000010C'EF 9E 0011 76 MOVAB CLUB$B_CCUFCB,RO ; ...which contains the failover blo
0018 77 :
0018 78 :
0018 79 : Synchronize, then just quit if it's the wrong failover sequence.
0018 80 : In that case, we expect to be called again with the correct one.
0018 81 :
0018 82 :
0018 83 SETIPL SYNCH ; synchronize with cluster code
1C A0 DE AF D1 001F 84 CMPL FAILOVER_ID,CLUFCB$L_ID(RO) ; is this the correct failover?
03 12 0024 85 BNEQ 20$ ; if NEQ, no: we're done.
0026 86 :
0026 87 :
0026 88 : Restart the failover sequence. The return will also be at
0026 89 : IPL$SYNCH, after some unknown amount of failover code is executed.
0026 90 : That is, eventually, failover code will fork, at which point, we
0026 91 : get control again.
0026 92 :
0026 93 :
DB BF 16 0026 94 JSB @RESUME_ADDRESS ; resume failover sequence
0029 95 20$:
0029 96 :
0029 97 : That's it.
0029 98 :
0029 99 :
0029 100 SETIPL #0 ; back to normal IPL
04 002C 101 RET ; return to caller
002D 102 :
00000008 002D 103 SYNCH: .LONG IPL$SYNCH

```

0031 104  
0031 105  
0031 106  
0031 107 .END

ASSUME <SYNCH - LOCK> LT 512

.....

CSPCJFRES  
Symbol table

L 3

16-SEP-1984 00:32:10 VAX/VMS Macro V04-00  
5-SEP-1984 04:08:40 [SYSLOA.SRC]CSPCJFRES.MAR;1

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(2)

```
CJFSRESUME FAILOVER      00000008 RG  02
CLUSGL_CLUB              ***** X  02
CLUBSB_CLUFCB           = 0000010C
CLUFCBSL_ID              = 0000001C
FAILOVER_ID              00000000 RG  02
IPLS_SYNCH               = 00000008
LOCK                     00000000 R   02
PRS IPL                  ***** X  02
RESUME_ADDRESS           00000004 RG  02
SYNCH                    0000002D R   02
```

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes											
. ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE		
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE		
CJFS_CSP_CODE	00000031 ( 49.)	02 ( 2.)	NOPIC USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE		

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.02	00:00:02.05
Command processing	143	00:00:00.49	00:00:02.14
Pass 1	160	00:00:01.48	00:00:06.40
Symbol table sort	0	00:00:00.12	00:00:00.37
Pass 2	36	00:00:00.31	00:00:01.23
Symbol table output	3	00:00:00.01	00:00:00.01
Psect synopsis output	0	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	381	00:00:02.45	00:00:12.22

The working set limit was 1200 pages.  
9579 bytes (19 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 176 non-local and 1 local symbols.  
107 source lines were read in Pass 1, producing 16 object records in Pass 2.  
11 pages of virtual memory were used to define 10 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-\$255\$DUA28:[SYSLOA.OBJ]CLUSTER.MLB;1	0
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	3
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	7

245 GETS were required to define 7 macros.

There were no errors, warnings or information messages.

CSPC  
V04-

CSPCJFRES  
VAX-11 Macro Run Statistics

M 3

16-SEP-1984 00:32:10 VAX/VMS Macro V04-00  
5-SEP-1984 04:08:40 [SYSLOA.SRC]CSPCJFRES.MAR;1

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(2)

MACRO/LIS=LIS\$:CSPCJFRES/OBJ=OBJ\$:CSPCJFRES MSRC\$:CSPCJFRES/UPDATE=(ENH\$:CSPCJFRES)+EXECMLS\$/LIB+LIB\$:CLUSTER/LIB

CSP  
V04-

0394 AH-BT13A-SE  
VAX/VMS V4.0

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CSPVECTOR  
LIS

CSPCLIENT  
LIS

DSTRLOCK  
LIS

DSTRLOCK  
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